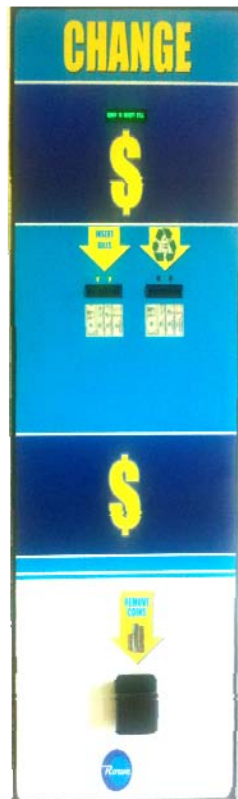




Model 400

Field Service Manual and Parts Catalog

For all models



Model
400RL
Rear Load



Model
400FL
Front Load

22190007
January, 2012
RevC

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Warranty

Rowe extends the original operator of this equipment the following warranty:

All parts are guaranteed to be free of defects in material and workmanship for the specific periods that follow. Rowe agrees to repair, without charge during such period, any part that proves defective upon examination by Rowe. All costs of shipping an allegedly defective part to Rowe's offices shall be borne by the original operator. Rowe will pay the shipping costs for the replacement of defective parts.

MEI Bill Acceptor	2 years from date of purchase
Changer Electrical Circuit Boards	1 year from date of purchase
Changer Electrical and Mechanical Parts	1 year from date of purchase

In the case of parts supplied to Rowe as components, Rowe extends the same warranty period as extended by the original manufacturer.

The above warranty applies provided that all parts of the product have been serviced properly as directed in the service manual, and provided the alleged defective part, upon examination by Rowe, shall prove to be thus defective. Under no circumstances shall Rowe be liable for any incidental, consequential, or special damages, losses or expenses arising from or in connection with the use of, or the inability to use, the product for any purpose. Rowe reserves the right to make any changes or improvements in products theretofore manufactured or sold.

This warranty will not apply to any part that has been subjected to accident, abuse, or misuse.

ROWE EXTENDS NO WARRANTY, EXPRESSED OR IMPLIED, TO PURCHASERS OR USERS OF ITS PRODUCTS EXCEPT AS HEREIN SET FORTH, WHETHER BY OPERATION OF LAW OR OTHERWISE.

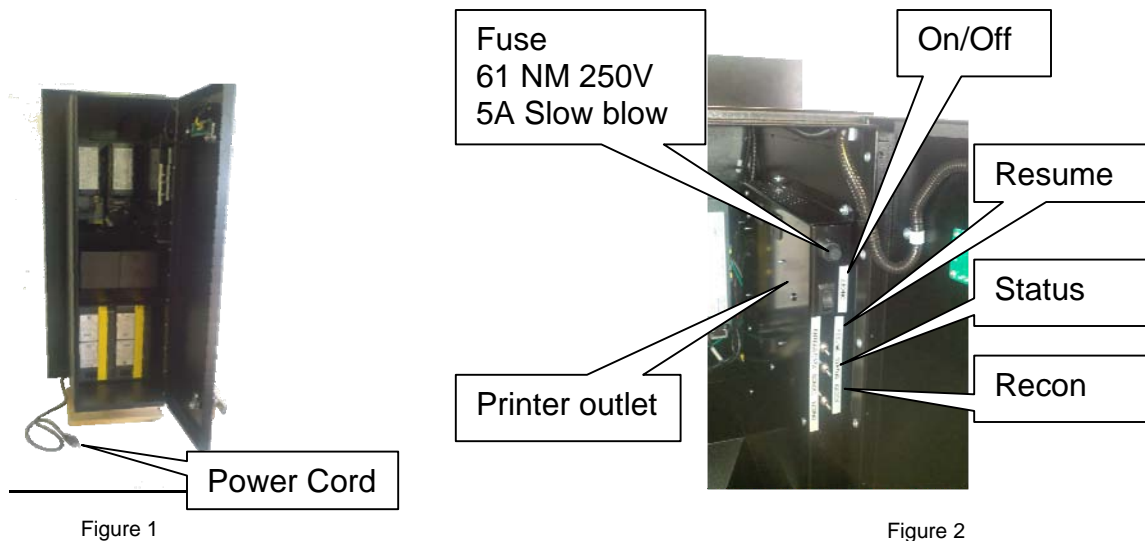
Mounting Specifications

Model:	400 (Front Load)	400 RL (Rear Load)
Type:	Front Load	Rear Load
Cabinet Dimensions		
- Width:	12.06 in.	12.06 in.
- Depth:	18.00 in.	18.00 in.
- Height:	38.62 in.	38.62 in.
Face Plate (DxWxH):	n/a	.125"D x 18"W x 44.62"H
Approx. Shipping Weight:	115 lbs.	130 lbs.
Power*		
- Line Voltage:	115 VAC, 95-125 VAC	115 VAC, 95-125 VAC
- Idle:	110/115 AC; 60Hz, 130w/1.5A	110/115 AC; 60Hz, 130w/1.5A
- Active:	110/115 VAC; 60Hz, 230w / 3.5A	110/115 VAC; 60Hz, 230w / 3.5A

*No more than three (3) Bill Breaker units may be connected to a single 15 amp circuit.

Rowe reserves the right to make improvements and changes at any time.

On/Off Switch, Toggle Switches, and Fuses



Power Cord

See Figure 1 for Power Cord location.

On/Off Switch, Toggle Switches and Fuses

On/Off, Resume, Status, Recon Switches are shown in Figure 2.

Fuse Locations

There are two fuses used.

- 1) Fuse, 61 NM, 250V 5A slow blow: Located in the power module above the on/off switch of the toggle switch box (shown above in Figure 1).
- 2) Fuse F3.15AH, 250v slow blow: Located on the power supply assembly (see figure below).

IMPORTANT NOTE

Plugging any device (such as drill, vacuum, etc.) into the printer power receptacle may cause a blown fuse.

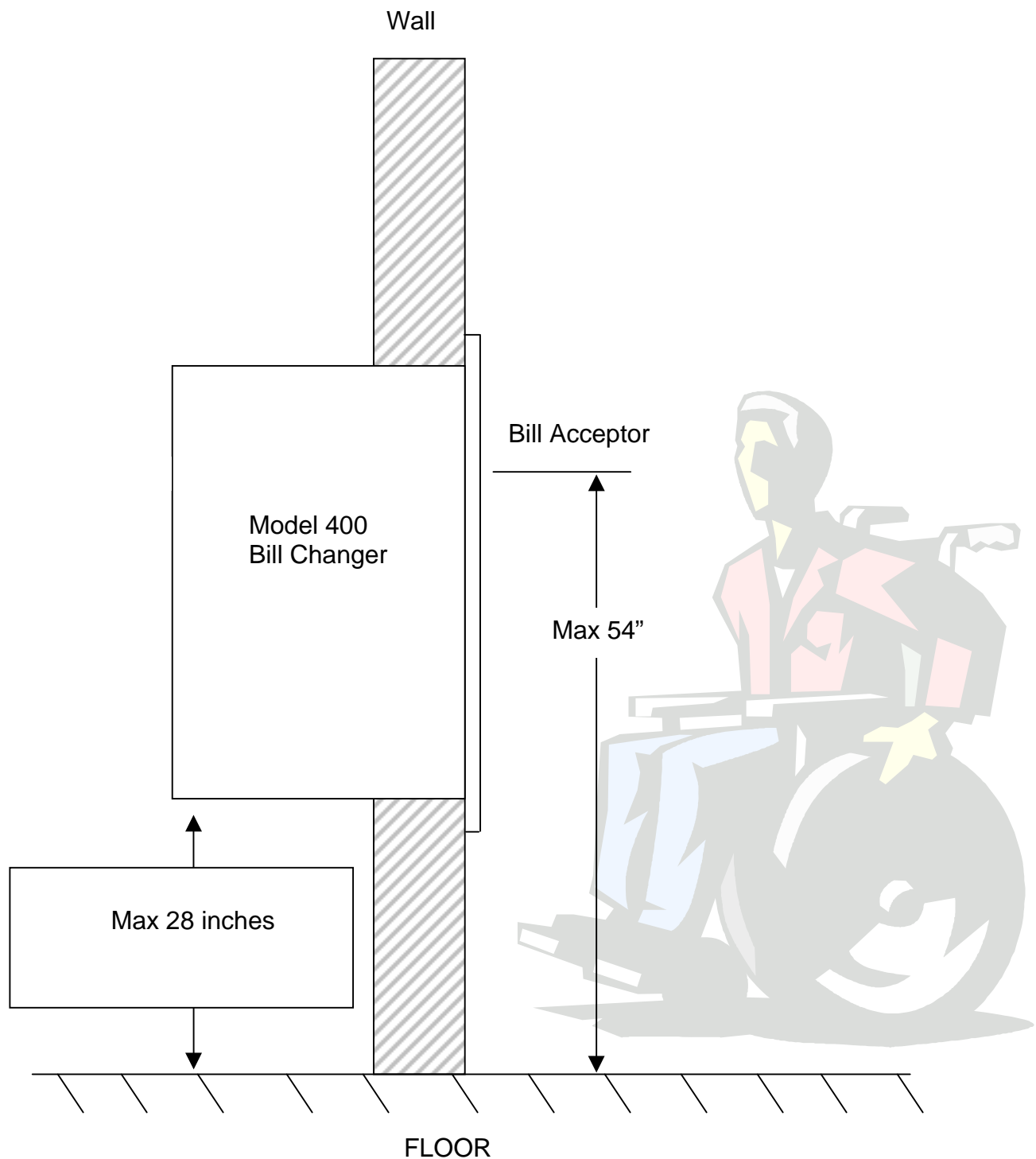
Fuse F3.15AH, 250 V
Slow Blow



Power Supply Assembly

Changer Installation to Meet ADA Requirements

The American Disabilities Act requires unobstructed access to equipment. It is to be no lower than 15 inches and no higher than 54 inches from the ground. This requirement must be met whether a changer is installed on a base, on a table, or in the wall.



Installing a Rear Load Model 400

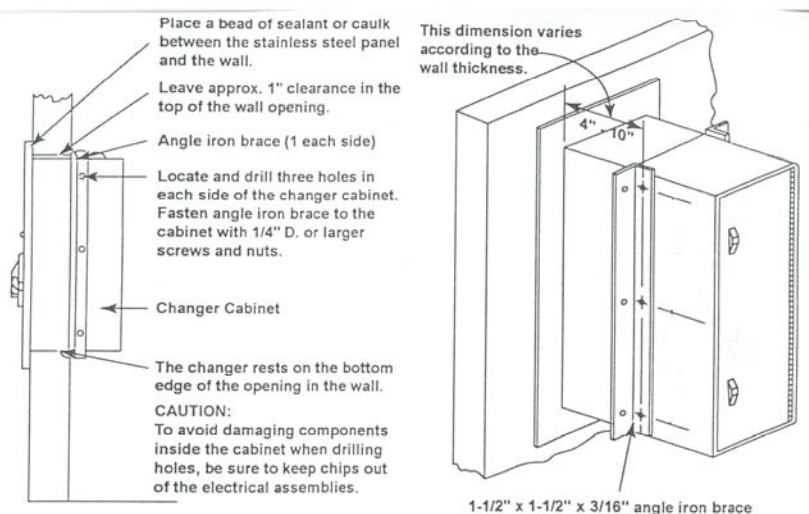
General

For all methods of installation, locate a convenient power source and be sure that the bill changer is mounted level.

The Rear Load Changer is primarily designed to be flush mounted on a wall with the cabinet itself protruding through a hole (or cutout) in the wall. The cutout should be determined by the cabinet dimensions shown on page 7. The faceplate, attached to the cabinet, is mounted tight (or flush) against the outside surface of the wall and secured with two angle braces (one on each side of the bill changer). See below for an illustration of this mounting technique. The wall should be flat and vertical so that when the changer is mounted to the wall, no gap exists between the wall and the stainless steel panel. If the changer is mounted on an outside wall, apply a liberal bead of sealant or caulking to the backside of the panel near the four outside edges to ensure a good weather seal and discourage prying.

Typical Wall Mounting

1. Refer to page 6 for cabinet dimensions and then make an opening in the wall just large enough for the changer cabinet. (Determine the bill changer mounting height before you start cutting into the wall.)
2. Depending on the wall thickness, locate and drill three ¼-inch diameter (or larger) holes in each side of the cabinet as shown below. Drill the holes in the angle-iron to match the holes in the cabinet.
3. Set the bill changer in the opening in the wall and apply a bead of sealant or caulking to the back side of the faceplate. Position the faceplate tight against the wall and fasten the angle braces to the sides of the bill changer with ¼-inch diameter screws or screws that match the holes drilled in Step#2. Make sure that the faceplate is tight against the wall.



Installing a Front Load Model 400

IMPORTANT NOTE:

Do not position the rear side of the mounting base flush with a wall. The rear side of the cabinet must hang over the rear side of the base by 1/2 inch to allow for the power cord to exit from the underside rear corner of the cabinet.

1. Position the changer on the base, then mark the mounting hole locations on the floor and/or wall.
2. Mount the base to the floor leaving at least ½ inch clearance between the rear base panel and the wall.

NOTE: A spacer may be needed between the rear base panel and the wall.

3. Place the Model 400 Changer on top of the base.
4. Square up the cabinet to the base and install the two (2) 1/4x20 screws with ½"x1 ¼" spacers in the two (2) front holes as shown in Figure 1. Use the screws, spacers and Allen wrench provided.
5. Remove the coin hoppers from the cabinet.
6. Install the other four (4) 1/4x20 screws and spacers along the left and right side of the cabinet.
7. For extra security, additional screws can be inserted through the rear cabinet panel into the wall.

Use Allen Wrench
and hardware
provided



Figure 1

Set Up/General Operation

When you first receive your new Changer, it may need to be configured for your use. Some options may be factory set but they are generic and may need to be reset. Refer to Program Reset on page 16.

There are three toggle switches on the side of the main board, located in the upper right side of the cabinet. (See below)



Switch Descriptions:

Resume:	Brings you to the next part of the program. Pressing the resume switch confirms and enters the data
Status:	Moves the cursor on the display during the set up procedure. Pressing the status switch moves the cursor through the data fields from left to right. Displays reconciliation data without clearing data.
Recon:	Toggles between all yes/no questions, as well as all numeric questions. Pressing the recon switch changes the data in the data field. Displays reconciliation data and allow clearing of data.

Also located in this area are the connections for the internal printer, if used, a power outlet, and the printer port connection. The main power switch (see photo) is also located in this area. The main board can be accessed by removing the screw that secures the control panel.

This is a good time to check any connections that may have come loose during shipping, check that the coin hoppers are secure in mounting plate and tight against coin cup. Remove all packing materials which maybe around the components. Check that the Mars bill validator, harnesses, and bill box are secure.

The Changer can be mounted to a base style cabinet or installed into a wall if you have a Rear Load model. Securely bolt down the Bill Breaker whether on a base or in a wall. The power required is 110 volts with a 15-amp surge.

Programming – 400 Front Load and Rear Load

Switches

Results

Resume

Brings you to the next line of the program.

Status

Moves the cursor on the Display during the setup procedures.
During operation displays reconciliation data and rests all totals to zero balances.

Recon

Toggles between all yes and no questions and is used for all number entries (1, 2, 3, 4, ...).

Display	Function (Press Resume switch after completing each function).
Enter Mach # 000000	Establishes machine ID# chose # using Recon and Status switches, then Resume
Printer Installed Y	Answer Y or N using the Recon switch, then Resume
Coin Dispenser #1 Y/N? Y	Checks to see if coin dispenser #1 is installed. Answer Y or N using Recon, then Resume
Enter Load in # Pieces 1000	Enter total # of coins using Status & Recon, then Resume
#1000 Load OK? Y/N	Verifies # of coins, answer Y/N using Recon, then Resume
Enter piece value X.XX 000	Using Status & Recon enter 25 then Resume
\$0.25 Pieces Y/N Y	Verifies the value of the coins. Using Recon answer Y/N, then Resume
Coin Dispenser #2 Y/N? Y	Answer Y or N using Recon, then Resume
Enter Load in # Pieces 1000	Enter total # of coins using Status & Recon, then Resume
#1000 Load OK? Y/N	Verifies # of coins, answer Y/N using Recon, then Resume
Enter piece value X.XX 000	Using Status & Recon enter 25 then Resume
\$0.25 Pieces Y/N Y	Verifies the value of the coins. Using Recon answer Y/N, then Resume
Enable \$ 1 Entry N	Allows selection of \$1 thru \$20 bills. Using Recon answer Y/N, then Resume
# From Recycler 00 \$1	Choose the number of bill to be dispensed from the recycler using Recon, then Resume
# of \$0.25 Coins H1 00 \$1	Choose the number of coins from Dispenser #1 using Recon, then Resume
Configuration OK Y/N	Choose Y/N with Recon. Choose Y if correct. If a previous Entry needs to be changed choose N. Then Resume
Printing Report Printed report OK?	Choose Y with Recon, then Resume
Ready to Accept Bill	Changer ready to accept a bill

Fast Reconciliation (Fast Recon)

When reloading coin and/or removing bills reconciling or balancing the changer, do the following to use a minimum number of key strokes and fastest return to operation. This procedure will return the number of coins paid and bills accepted to \$0. This procedure will not allow a printed report of the reconciliation.

Display	Function
Fast Recon Y/N?	With Recon switch, select Y, then Resume
Ready to Accept Bill	

Reconciliation (Recon)

When reloading coin and/or removing bills reconciling/balancing the changer, viewing reconciliation data and printing the recon report, do the following. This procedure will return the number of coins paid and bills accepted to \$0.

Display	Function
Recon	With Recon switch, select Y, then Recon. At any time click Resume switch to finish the Recon process.
Machine #	This is the machine identifier selected during set up. Then click the Recon switch.
Doc Stacked 1	This is the number of bills stacked in bill boxes. Then click the Recon switch.
Stacked Dollar \$5	This is the value of the bills stacked in bill boxes. Then click the Recon switch.
Stacked 1s	Number of \$1 bills stacked in bill boxes. Then click the Recon switch.
Stacked 5s	Number of \$5 bills stacked in bill boxes. Then click the Recon switch.
Stacked 10s	Number of \$10 bills stacked in bill boxes. Then click the Recon switch.
Stacked 20s	Number of \$20 bills stacked in bill boxes. Then click the Recon switch.
#1 Coin Load \$500.00	Total value of coins \$500 loaded into Hopper #1. Then click the Recon switch.
#1 Coin Paid \$2.50	Total value of coins \$2.50 paid from Hopper #1. Then click the Recon switch.
#1 Coin Left \$497.50	Total value of coins \$497.50 paid from Hopper #1. Then click the Recon switch.
#2 Coin Load \$500.00	Total value of coins \$500 loaded into Hopper #1. Then click the Recon switch.
#2 Coin Paid \$2.50	Total value of coins \$2.50 paid from Hopper #1. Then click the Recon switch.
#2 Coin Left \$497.50	Total value of coins \$497.50 paid from Hopper #1. Then click the Recon switch.

-----Machine Totals-----	
TTL Load \$1000.00	Total value of coins \$1000 loaded into Hopper #1 and Hopper #2. Then click the Recon switch.
TTL Paid \$5.00	Total value of coins \$5 paid from Hopper #1 and Hopper #2. Then click the Recon switch.
TTL Left \$995.00	Total value of coins \$995 left in Hopper #1 and Hopper #2. Then click the Recon switch.
Printed Recon Data Y/N	Use Recon to choose Y, then Resume
Printed Report OK Y/N	Use Recon to choose Y, then Resume
CLR Recon Data Y/N	Use Recon to choose Y to clear totals, then Resume
Ready to Accept Bill	

Printout Sample

```

RECONCILIATION RPT
DUAL VALIDATOR_B
MACHINE #- - - 1
DOC STACKED - - 1
STACK DOLLAR   $5
STACK 1S ----- 0
STACK 5S ----- 1
STACK 10S ----- 0
STACK 20S ----- 0
#1 COIN LOAD - $500.00
#1 COIN PAID - $2.50
#1 COIN LEFT - $497.50
#2 COIN LOAD - $500.00
#2 COIN PAID - $2.50
#2 COIN LEFT - $497.50
- - - MACHINE TOTALS - - -
TTL LOAD  $1000.00
TTL PAID   $5.00
TTL LEFT  $995.00

```

Program Reset

Important Note:

Answer "Y" to clear all program settings. Answer "N" to change any of the program settings.

Before starting the reset process, a reconciliation "Recon" must be completed.

Turn power OFF.

Hold down Resume switch.

While holding down Resume switch, turn power ON and hold Resume down for several seconds. The following prompts will be displayed:

- "Hold Resume To CONFIG"
- "Release Resume"
- "Reset Machine Y/N"
- Answer "Y" or "N" by cycling Recon switch

Important Note:

Answer "Y" to clear all program settings. Answer "N" to change any of the program settings.

Follow display prompts.

"Out of Coin" Message /Coin Load / Reconciliation

The Changer will shut down and will not accept further currency **if: EITHER** coin hopper is drawn down to about 100 coins.

You must perform a reconciliation and reload the hopper with the same amount of money that you originally started with. This preserves the "Coin Load" data in the Bill Breaker.

Press the resume switch. The display will prompt, "Print recon Y/N?"

Select "Y" and press the resume switch. The reconciliation report prints and the display reads "printed report OK?"

Respond "Y" and press the resume switch. The display will read "? CLR recon data Y/N?" Choose Y, then click Resume switch.

Prompts to purge coin hoppers are as follows:

- "Purge Coin Y/N"
- "Purge Coin?"

These messages repeat if a second hopper is used.

Changer will display "Ready To Accept Bills".

IMPORTANT NOTE:

The Bill Breaker ***MUST BE RECONCILED BEFORE ANY EXSISTING OPTIONS ARE CHANGED.*** This does not apply to initial setup, ONLY if you wish to change any pre-existing options or settings.

Failure to do so will delete all bookkeeping functions and events for the current period.

Configuration Print

Make sure printer is connected and turned ON.

While power is ON, hold down the Resume switch for 10 seconds.

Release Resume switch when printing begins.

The printout will show how the Changer is configured. This print out will also be created when settling up a unit or changing any set up setting.

Sample Configuration Report

CONFIGURATION RPT
DUAL VALIDATOR_B
MACHINE NUMBER = 1
DISPENSER #1 ENABLED
COIN LOAD=\$2000
COIN VALUE=\$0.25
DISPENSER #2 ENABLED
COIN LOAD=\$2000
COIN VALUE=\$0.25
PRINTER IS --- ENABLED
TRANSACTION DEFINITIONS
\$1 IS ENABLED
-# COIN1=02/0.25
-# COIN2=02/0.25
\$5 IS ENABLED
-# COIN1=10/0.25
-# COIN2=10/0.25
\$10 IS ENABLED
-# COIN1=10/0.25
-# COIN2=10/0.25
\$20 IS ENABLED
-# COIN1=20/0.25
-# COIN2=20/0.25

Help Code Chart

HELP CODE	DESCRIPTION/ CORRECTIVE ACTION
?Out of Coin?	Reload coin hoppers and reconcile unit, answer "Y" to clear Recon data prompt. Click Resume switch.
?Bill Accp Err?	Bill acceptor is not communicating with changer. Check the red LED flash code on the bottom rear of the bill acceptor.

Status Report

Each time the Status switch is clicked, recon data will appear. See sample below. You can also print out all of this data for your records, if you have a printer. Print this data by clicking Resume and follow prompts.

Choose Y or N to printing report, click Resume switch, and the Changer will return to normal, "Ready to Accept Bill".

Sample Report

```
STATUS REPORT
DUAL VALIDATOR_B
MACHINE #- - - 1
DOC STACKED - - 4
STACK DOLLAR   $40
STACK 1S ----- 0
STACK 5S ----- 2
STACK 10S ----- 1
STACK 20S ----- 1
#1 COIN LOAD - $500.00
#1 COIN PAID - $12.50
#1 COIN LEFT - $487.50
#2 COIN LOAD - $500.00
#2 COIN PAID - $12.50
#2 COIN LEFT - $487.50
- - - MACHINE TOTALS - - -
TTL LOAD $1000.00
TTL PAID  $25.00
TTL LEFT  $975.00
```


Voltage Test Points

The following test points with their voltage settings are found on the main control board shown in Figure 4.

<u>Test Point</u>	<u>Action</u>	<u>Voltage Expected</u>
Jumper to TP 1 & 9 th pin on the 40 pin processor	Occasionally when the unit has been turned off for long periods of time, it is necessary to reset the processor. The action of the unit will be that the bill acceptor and dispenser can be heard activating but the display is blank. This action puts +5 VDC to the processor for the reset.	+5 VDC
TP1	Power to the main logic board	+5 VDC
TP 2	Power to the processor	+5 VDC
TP 3	Power for RS 232 for dispenser and PC interface	+ 9 VDC to +12 VDC
TP 4	Power for RS 232 for dispenser and PC interface	- 9 VDC to - 12 VDC
TP 5	Ground	Ground

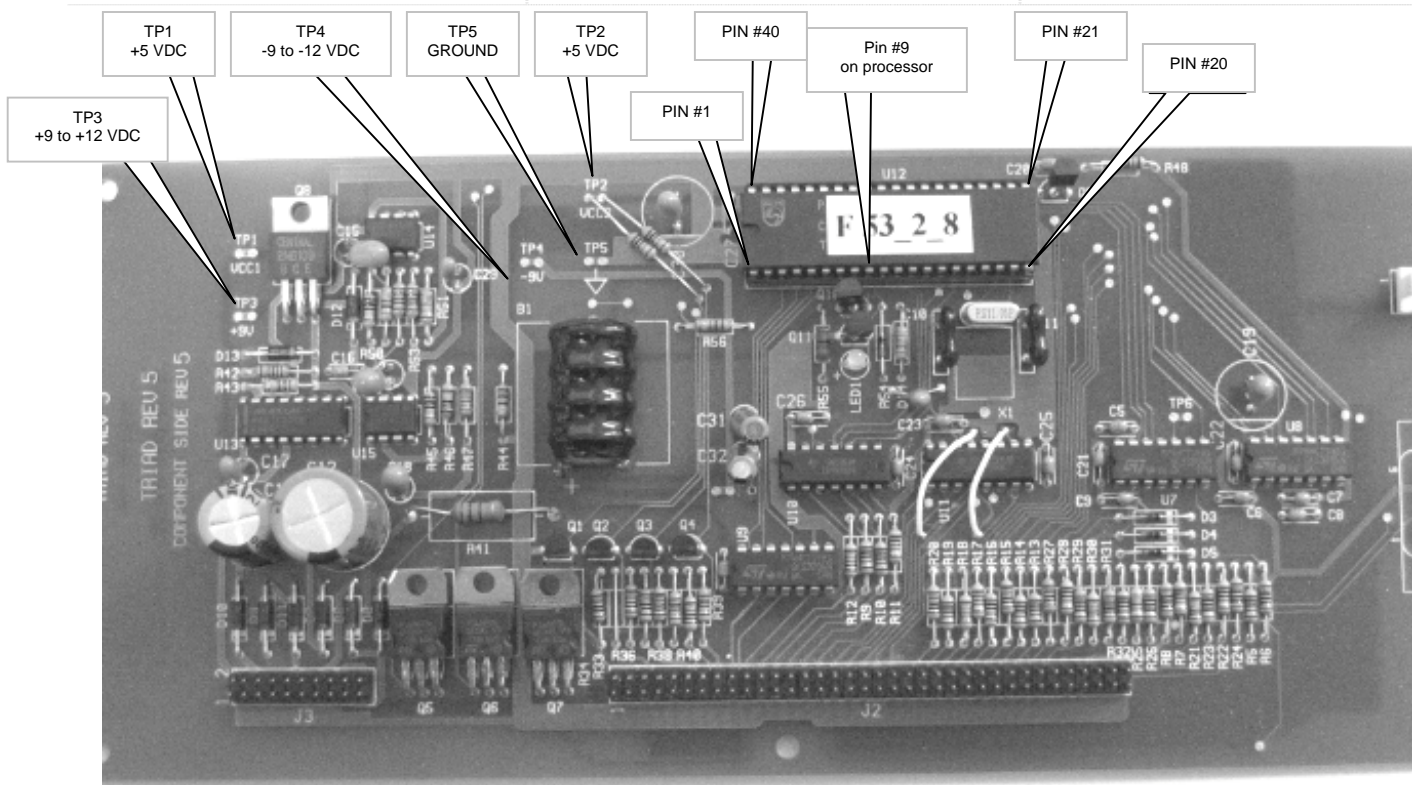


Figure 4

Mars Bill Acceptor

New Bill Design Updates

To update Bill Breaker to handle new bill designs, new software is downloaded into the bill acceptor. Contact a local MEI distributor to purchase a BPM (Bill Programming Module) or have the MEI distributor download new software into the bill acceptor. This is a simple procedure that most operators can do themselves. There is a nominal charge for the BPM and downloading service.

DIP Switch Settings

1-8 off..... normal operation accepting bills in 4 directions

1 on, 2 - 8 off.....accept bills in 1 direction

1-2 off, 3 on, 4 – 8 off.....high security feature off

Cleaning

It is time to clean the bill acceptor when bills are being returned to patrons at an unacceptable rate. Turn Changer power off. Lift chrome plated rod at the rear of the bill acceptor pulling the bill track out toward you. See Figure 1. Using a clean cloth dampened with warm soapy water wipe the bill track and white feed rollers removing dirt and ink. Also wipe clean the prism at the bottom of the bill box. Replace the bill track and bill box. Turn Changer power on.

For More Information

Contact the www.meiglobal.com for more detailed service and maintenance information.

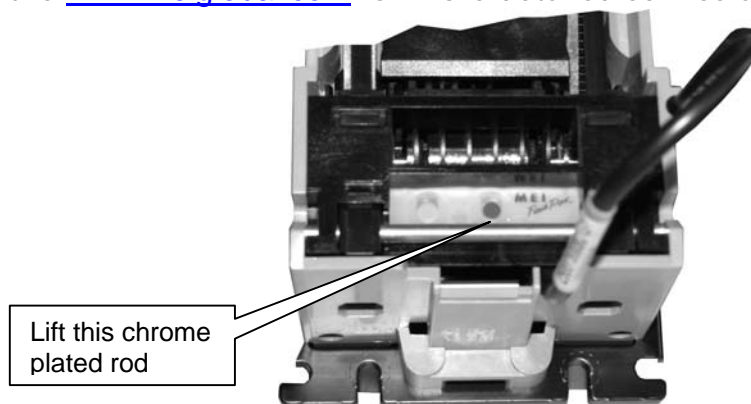


Figure 1

MEI VN2700R – Bill Acceptor and Bill Recycle

The model VN2712R-U5M is used to accept \$1, \$2, \$5, \$10 & \$20 United States bill with a secure narrow ½"H x 2 ¾"W compact bezel and 500 bill box. Optional Model VN27D2R-U5M is used to accept \$1, \$2, \$5, \$10, \$20 United States bills with high visibility 3 ¼"W x 4 ¼"H bezel and 500 bill box.

We suggest loading ATM quality bills into the recycler for best performance.

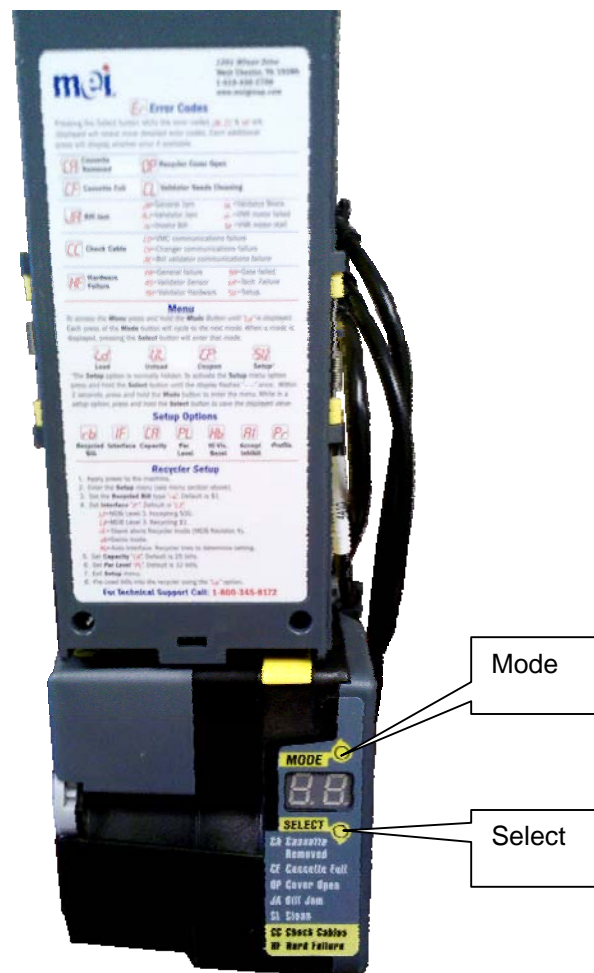


Figure 1

Load Bills Into Recycler

Press Mode button for 2 seconds, then press select button and display flashes between



"Ld" load and "18" number of bills currently (in this example, 18 bills are inside the recycler) inside the recycler. Insert bills into the bill acceptor to a maximum of 30.



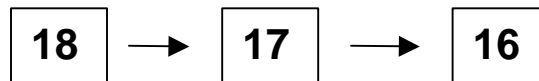
To return to normal operation, press Mode button. With no activity for 30 seconds, the recycler will "time out" and return to normal operation.

Unload Bills From Recycler

Press Mode button twice and then press Select button and display shows:



Each time Select button is pressed, one more bill is moved from the recycler to the bill box.



If the select button is pressed for more than 2 seconds, the recycler will continuously move bills from the recycler into the bill box. Press the Mode button to stop bill unloading. With no activity for 30 seconds, the recycler will "time out" and return to normal operation.

New Bill Design Updates

To update Bill Breaker to handle new bill designs, new software is downloaded into the bill acceptor. Contact a local MEI distributor to purchase a BPM (Bill Programming Module) or have the MEI distributor download new software into the bill acceptor. This is a simple procedure that most operators can do themselves. There is a nominal charge for the BPM and downloading service.

DIP Switch Settings

1, 2, 4, 6, 7, & 8 on – 3, 5 off.....normal operation accepting bills in 4 directions

Cleaning

It is time to clean the bill acceptor when bills are being returned to patrons at an unacceptable rate. Turn Changer power off. Remove bill box. Follow instructions in the

bill recycle module. See Figure 2. Using a clean cloth dampened with warm soapy water wipe the bill track and white feed rollers removing dirt and ink. Also wipe clean the prism at the bottom of the bill box.

Replace the bill track and bill box. Turn Changer power on.

For More Information

Contact the www.meiglobal.com for more detailed service and maintenance information.

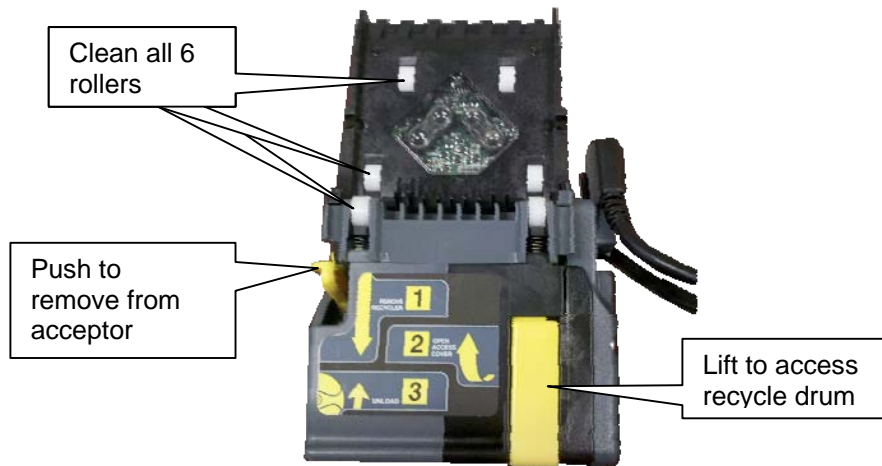


Figure 2

Coin Hoppers

The SUZO-HAPP Evolution Hoppers are used to dispense coins and tokens. The standard hopper set up will reliably dispense United States nickel to dollar sized coins and tokens.

United States dimes (10¢) and dime sized tokens

A specially designed elevator track is needed to handle the United States dime and tokens smaller than a dime. Contact Rowe for more information.

Optional Hopper Extensions

Optional hopper extensions are available that hold 3200 quarters (Part Number 22135612) or 5600 quarters (Part Number 22135622). See Page 29-32 of Parts Catalog.

Cleaning

Periodically remove hopper by sliding hopper out of the slide plate and socket. Turn the hopper upside down shaking out the dirt. Canned air or vacuum can also be used. Using a clean cloth dampened with IPA (isopropyl alcohol) wipe the debris inside of the hopper. Focus the canned air and wiping action toward the count sensor located above the coin exit area. Also use a "scrubby" type pad to wipe away accumulated dirt on the low level sensor plates at the bottom of the hopper.

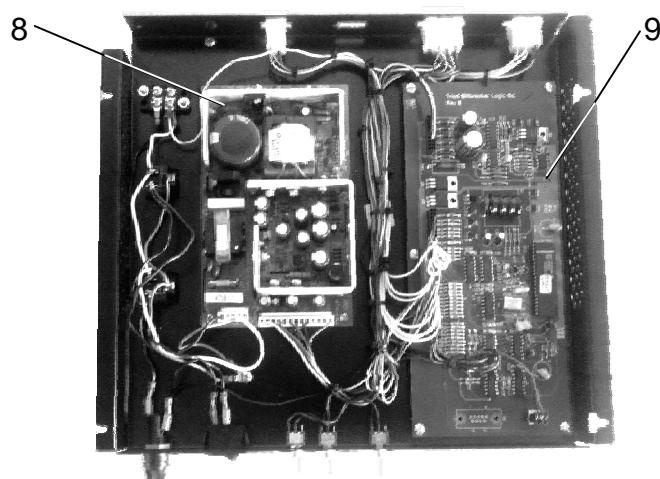
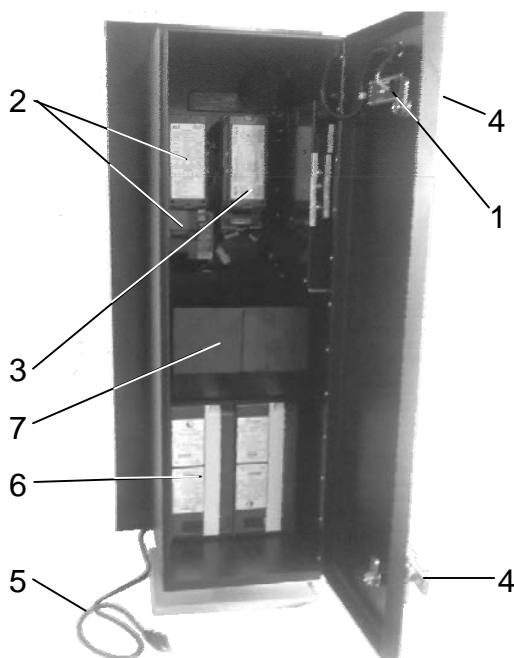
For More Information

Contact the www.happycontrols.com for more detailed service and maintenance information for the Evolution EVO1000 hoppers.

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Model 400 Parts Catalog

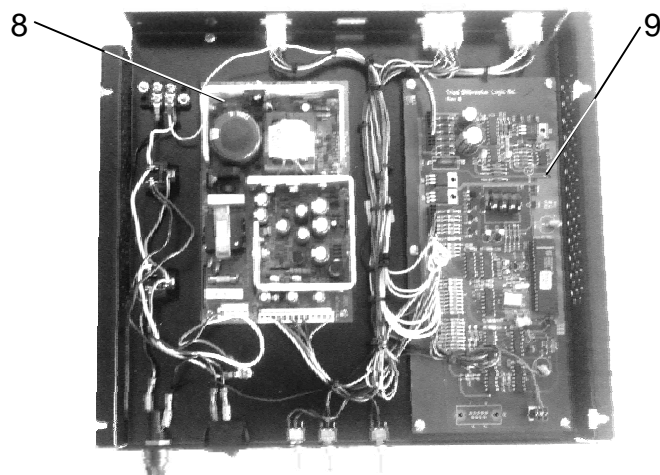
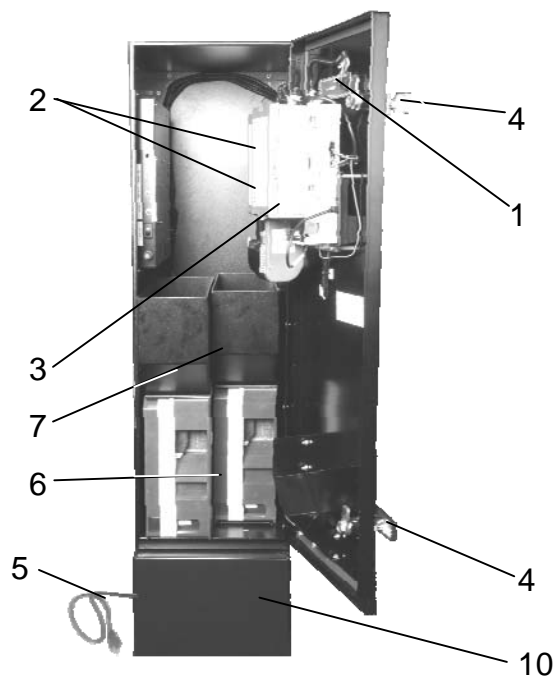
**400 RL (Rear Load with 1-MEI VNR, 1-MEI 2611,
2 coin hoppers)**



400 RL(Rear Load with 1-MEI VNR, 1-MEI 2611, 2 coin hoppers)

Ref.	Part No.	Description	Qty
		Cabinet Assembly Internal View	Ref.
1	22196101	Display	1
2	22135618	VN2700R with compact bezel with 500 Bill Box	1
	22135619	Optional MEI VNR with high visibility bezel with 500 Bill Box	1
3	22135607	Mars 2611 Bill Acceptor \$1, 2, 5, 10, 20 with 500 Bill Box	1
4	35027809	T-Handle Assembly with Hardware	2
	25223407	Lock Cylinder with 2 Keys	2
5	22199701	Power Cord	1
6	22203301	Coin Hoppers holds 1600 quarters	1 or 2
7	22135622	Optional Hopper extension and hopper holds 5600 quarters TOTAL	1
8	22196301	Power Supply	1
9	22196001	Logic Printed Circuit Board	1
	NOT SHOWN		
	22135621	Optional Hopper extension and hopper holds 3200 quarters	1

400 FL (Front Load with 1-MEI VNR, 1-MEI 2611, 2 coin hoppers)



400 FL(Front Load with 1-MEI VNR, 1-MEI 2611, 2 coin hoppers)

Ref.	Part No.	Description	Qty
		Cabinet Assembly Internal View	Ref.
1	22196101	Display	1
2	22135618	VN2700R with compact bezel with 500 Bill Box	1
	22135619	Optional MEI VNR with high visibility bezel with 500 Bill Box	1
3	22135607	Mars 2611 Bill Acceptor \$1, 2, 5, 10, 20 with 500 Bill Box	1
4	35027809	T-Handle Assembly with Hardware	2
	25223407	Lock Cylinder with 2 Keys	2
5	22199701	Power Cord	1
6	22203301	Coin Hoppers holds 1600 quarters	1 or 2
7	22135622	Optional Hopper extension and hopper holds 5600 quarters TOTAL	1
8	22196301	Power Supply	1
9	22196001	Logic Printed Circuit Board	1
10	22200602	Optional Mounting Base	1
	NOT SHOWN		
	22135621	Optional Hopper extension and hopper holds 3200 quarters	1

OPTIONAL PRINTER



Ref.	Part No.	Description	Qty
	22199201	Printer Assembly includes all items below	
1	22199901	Paper Roll 2.25"W x 2" Dia	1
2		Citizen Dot-Impact Printer (optional) with User's Manual	1
3	22200101	Ribbon Cassette - Black	1
4	22196301	Power Supply (Input: 120 VAC, . 60 Hz, 20 W) (Output: DC 7.0 V, 1.6 A)	1